

Title (en)
SPARK PLUG

Title (de)
ZÜNDKERZE

Title (fr)
BOUGIE D'ALLUMAGE

Publication
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Application
EP 10735630 A 20100127

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Abstract (en)
The present invention provides a spark plug which is capable of suppressing a occurrence of crack and separation by determining a structural configuration of a melting portion formed in a junction portion between a discharge portion and a pedestal portion which form an ignition portion that protrudes from a ground electrode. In a profile line shape of a cross section including a center axis P of an ignition portion 80, an exposure surface 88 of a melting portion 83 connects a side surface 82 of a discharge portion 81 and a side surface 85 of a pedestal portion 84. Further, an exterior angle θ formed between an imaginary line Q, which passes through a boundary position X1 between the melting portion 83 and the pedestal portion 84 and a boundary position X2 between the melting portion 83 and the discharge portion 81, and the center axis P at a node C, satisfies $135^\circ \leq \theta \leq 175^\circ$. Furthermore, a proportion T/S of a forming depth T of the melting portion 83 to an outside diameter S of the discharge portion 81 satisfies T/S ≥ 0.5 .

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